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Approved For Release 2005/06/06 : CIA-RDP78B04770A002700030004-7

NPIC/P&DS/D/6-1572
14 September 1966

Declass Review by NGA.

MEMORANDUM FOR THE RECORD

SUBJECT: Facsimile Transmission Briefing

25X1 1. [] of Defense Communications Agency, sponsored this program for the information and benefit of personnel of DCA and other interested government agencies. This unclassified briefing concerning facsimile transmission was held on 28 July 1966 at DCA and was attended by the undersigned and [] from NPIC. Representatives of [] gave the presentation. The meeting was concerned primarily with state-of-the-art of the various individual components and with transmission costs and performance trade-offs. The subjects that were covered included; input devices, integrated circuitry, digital storage equipment, security devices, analogue to digital converters, readout equipment and hard copy devices.

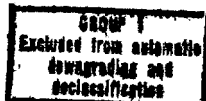
25X1 2. Considerable progress has recently been made in the improvement of high resolution input devices such as the Schade Vidicon being developed []. Various band width compression techniques are also presently under development and considerable improvement and progress has been made to date. There is promise of more improvement in the near future, with the possibility of selective resolution for maximum use of all facilities. High resolution readout devices such as an 18 inch thin window kinescope are under development along with dry process hard copy output devices and materials. The 3-M dry silver process was mentioned by the [] representatives as a recommended high quality hard copy material.

25X1 3. [] representatives were dedicated to pointing out that the high costs of introducing integrated circuits, bandwidth compression, selective resolution, etc., can be offset by savings in the high costs of transmission lines. Money spent in developing and using equipment to cut down on transmission time and number of transmission lines needed, would pay off in the long run. For example, a saving of [] per month does not appear to be much of a cost differential, but this amounts to [] per year for each year of use.

25X1 4. Significant advances in the various aspects of facsimile transmission have occurred in the last few years. These improvements are also applicable to image storage and retrieval systems. It is now feasible to transmit secure, high resolution (1000 lines/inch), visual information and facsimile over considerable distances at moderate costs, provided that the volume is sufficient to justify transmission line and terminal equipment costs.

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5. It is recommended that close liaison be maintained with DCA, NSA, etc., to keep up with the rapidly changing field of visual communication and facsimile equipment.



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